

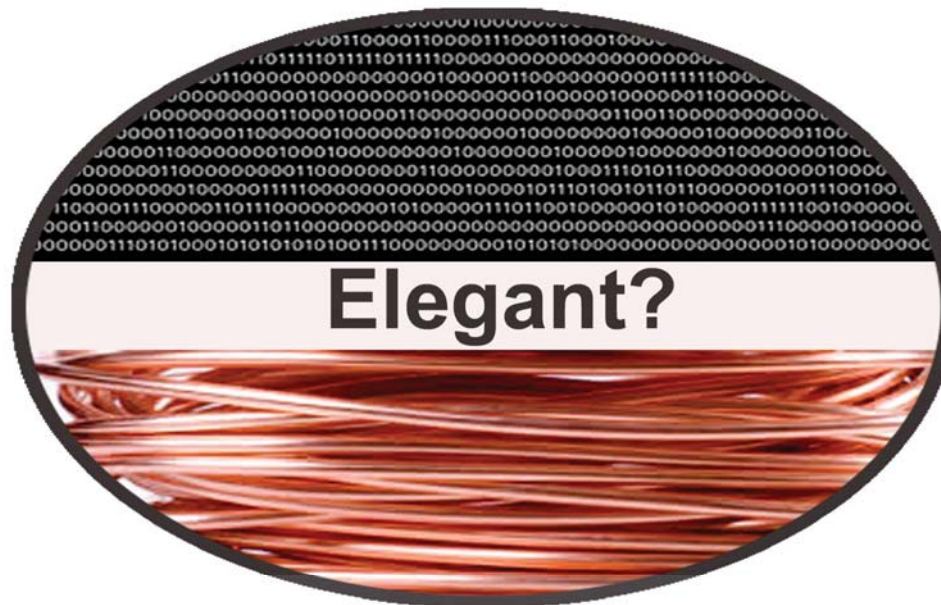
# **Over-The-Top**

## **Naming, Addressing & Numbering**

### All-IP Trial Proposal

February 13, 2014

Jay Carpenter - PHONEWORD - GN 13-5



**Could the all-IP transition be “elegant”?**

Jay Carpenter, PHONEWORD, February 13, 2014, GN 13-5, page 2.



**Could the PSTN be mostly left alone?  
“Stay as long as you like however checkout time is 2020”**

Jay Carpenter, PHONEWORD, February 13, 2014, GN 13-5, page 3.

# Can We Create and Innovate Anew?



Jay Carpenter, PHONEWORD, February 13, 2014, GN 13-5, page 4.

# Can the Community Create and Innovate Collaboratively?



Jay Carpenter, PHONEWORD, February 13, 2014, GN 13-5, page 5.

# Specifics and Details

How can Elegance, Creativity, Innovation and Collaboration Happen During the Trials?



Jay Carpenter, PHONEWORD, February 13, 2014, GN 13-5, page 6.

# Basics

- Free Registry for ENUMs and Domains (FRED: <http://fred.nic.cz/>)
- Open Source and Collaborative - FRED Community is in place
- Peer to Peer
- Fork it if you have a better idea
- Internet Domain Ecosystem Centric with existing PSTN fallback in real time
- Compatible without conflicting with existing registries and databases
  - NPAC
  - LERG
  - SMS/800
- Foundation for Registry, Registrar and Registrant Choice
- Choice of IP or PSTN is made by the End-users in real time
- Technology and Security testbed (web centric)
- Business model testbed including market-based allocation and toll free broadband
- Governance and policy testbed
- Authentication, Authorization and Authority testbed
- Downloadable Application (ENUM Droid available today)
- Browser based dial pad or address entry pad via WebRTC

# Details

- Service Experiments are integrated with numbering and addressing
  - NAPTRs allow for rich set of functionality
- Experiments for iTRS/VRS and other enhanced service communities are available
- Zero licensing cost, open source and non-proprietary software
- All Internet without modification to the Public Switched Telephone Network ecosystem
- Data can be gathered and reported as usage occurs
  - FRED has data collection functionality
  - Reporting is available
- Community is already in place for collaboration
  - <http://www.nic.cz/>
  - <http://fred.nic.cz/>
  - In use in over 6 countries
  - 2006 was the year FRED was placed into operation for the Czech Republic
- Timeline - FRED centric trial platform could be operational within 30 days of trial launch
- Hackathon compatible



# Data to be measured

- Number of active users at different points in time
- Demographics of users
- Number of NAPTRs provisioned per ENUM
- Number of businesses requesting a toll free broadband ENUM
- Voluntary user surveys and feedback responses
- Number of complaints
- Number of active developers participating in platform enhancements
- Number of registrars
- Number of registrants
- Number of alternative registries that are forked during the all-IP trial
- GitHub activity
- Google Analytics
- Twitter and other social media activity
- Number of enhanced services created for communities like the hearing impaired
- Businesses created from the FRED inspired testbeds
- Employment created fromt the FRED inspired testbeds

# Timeline

- Team formation by May 1, 2014 - open invitation
- Cloud based registry operating by May 15, 2014
- Downloadable app is operating by May 15, 2014
- Toll free broadband is operational by (carrier dependent)
- Reporting is available on a monthly basis
- Monthly open community virtual meeting on the third Wednesday of each month
- FRED Registry Inspired trial conclusion by May 15, 2015

# Conclusion, Recommendation and Request

- Include at least one FRED inspired registry as part of the All-IP Trials.
- While NG911 might fit well with a FRED inspired registry, we will need to have a registry instance built and tested for this specific purpose. Controlled experimentation with NG911 will be one of the first priorities. In all cases, anyone using a downloadable app associated with this proposal will have the choice to revert to standard PSTN connectivity at any time. Browser dialing using WebRTC will require testing with 911 and NG911 prior to release for trials.
- At this time, no waivers or regulatory relief is requested regarding the FRED inspired registry proposal. We do request the right to request waivers and regulatory relief as the trials progress and if such relief might be appropriate.
- Build FRED inspired registries and then evaluate real world use cases
- Build, Test, Evaluate and Iterate
- This presentation constitutes a non-binding indication of interest and request to include the www.PHONWORD.org FRED Inspired Registry in the all-IP trials as announced in the FCC order dated January 30, 2014 and filed under GN 13-5.

***“Imagination is more important than knowledge. For knowledge is limited to all we now know and understand, while imagination embraces the entire world, and all there ever will be to know and understand.” -Albert Einstein***

***“No one knows what’s next, but everybody does it.” -George Carlin***

# Contact Information & Background

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- Background and experience
  - Future of Numbering Working Group
    - FTN-005 Champion
    - FTN-003 Champion
  - SNAC
  - RespOrg
  - CC1 ENUM LLC Participant
    - TAC Contributor
  - PHONWORD Forum (<http://phoneword.com/phonewordforum.html>)
  - Desert JS ([www.DesertJS.us](http://www.DesertJS.us))
  - Education
    - MBA, University of Southern California (cum laude)
    - BS Business Administration, Arizona State University (cum laude)